

Abstract

The present invention relates to a catalyst composition for polymerization of olefins and copolymerization of olefins with alpha-olefins comprising (a) catalyst precursor comprising at least one Ziegler-Natta compound, at least one metallocene compound, at least one titanate compound and/or at least one alcohol compound, a magnesium compound and a polymeric material, and (b) a cocatalyst comprising of an alkylaluminum compound, aluminoxane compound or mixtures thereof; and to a process for polymerization of olefins and copolymerization of olefins with alpha olefins using a catalyst composition according to the present invention.